

What is claimed is:

- [cl001] 1. A method comprising:
- selecting at least one founder;
  - identifying a very large family from the founder;
  - linking the very large family to a disease database;
  - determining an incidence of disease by calculating which and how many individuals within the very large family have the disease;
  - comparing the incidence of disease in the very large family to a general population incidence of disease; and
  - assessing a statistical significance of the disease incidence in the very large family.
- [cl002] 2. A method as in claim 1, comprising:  
determining a relative risk of incidence of disease for the very large family.
- [cl003] 3. A method as in claim 2, comprising:  
determining a relative risk of incidence of disease for an individual within the very large family.
- [cl004] 4. A method as in claim 1, comprising:  
obtaining DNA samples from individuals with disease and their family within the very large family.
- [cl005] 5. A method as in claim 4 comprising:  
identifying identity-by-descent regions within the DNA samples.
- [cl006] 6. A method as in claim 5, comprising:  
identifying a susceptibility gene within the identity-by-descent regions.
- [cl007] 7. A method comprising:  
determining a relative risk of incidence of disease for a very large family.
- [cl008] 8. A method as in claim 7, comprising:

determining a relative risk of incidence of disease for an individual within the very large family.

[cl009] 9. A method comprising:

- a. obtaining DNA samples from individuals with disease and their family within a very large family; and
- b. identifying identity-by-descent regions within the DNA samples.

[cl010] 10. A method as in claim 9, comprising:

identifying a susceptibility gene within the identity-by-descent regions.

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